LMA District Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard Hamilton Bend

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				
	** Non-receipt of Sumn Reports may effect o			
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated	ratings are not deterr			lual maintenance
FALL INSPECTIONS: The overall maintena within the attached u			ation and maintenance de ended to be an indiction	
Comments				

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles
Unit No. 01 Feather River Hamilton Bend	Right	3.39

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/20/2018 - 3/20/2018			
DWR Inspector	Sterling York			
Accompanied By	Shawn Freitag Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	03/20/2018 03/20/2018	Sterling York

LM Start		Rating **	Α	Issue No.		7	_
LM End		Issue Type +	Ма	Location *			
Catagony	Earthen L	evee		GPS La	atitud	le/Longitude	
Category			Start		End		
Item	Operations & Maintenance				٥		0
пеш	Manuals				٥		0
DWR ID	DWR_ST0	005_01_s _ 201	3_7				
		Comn	nent Cod	le			
		Inspecto	or Comm	nent			
New O&M	manuals i	s located at th	e Sutter	Maintenan	ce Y	ard for the	

No Photos

LM Start		Rating **	Α	Issue No.		8	
LM End		Issue Type +	Ma	Location *			
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item		cy Supplies &			0		0
пеш	Equipmer	nt			٥		0
DWR ID	DWR_ST0	005_01_s _ 201	3_8				
		Comn	nent Coo	de			

No Photos

Inspector Comment

Emergency supplies and equipment are stored at the Sutter Maintenance Yard.

potion of levee that was under construction in 2016.

LM Start		Rating **	Α	Issue No.		9	
LM End		Issue Type +	Ма	Location *			
Category Earthen Levee			GPS La	atitud	le/Longitude		
			Start		End		
Item	Flood Preparedness & Training				0		0
Item					0		0
DWR ID	DWR_ST0	005_01_s _ 201	3_9				
		Comn	nent Cod	le			
	Inspector Comment						

No Photos

utter Maintenance	Yard employees	attend the	annual Fl

Flood Fight class put on by DWR inspector Bob Duffy.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR · Crown	II · I Inaccentable	A/W · Acceptable but Monitor & Maintain	En · Enforcement

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	03/20/2018 03/20/2018	Sterling York

LM Start	0.01	Rating **	Α	Issue No.		12		
LM End	1.22	Issue Type +	Ma	Location *	LS			
	Category Earthen Levee			GPS Lat	ituc	le/Longitude		
Calegory				Start		End		
Itom	Vegetatio	n		39.43984	8 °	39.456805 °		
пеш	Item			-121.64146	9 °	-121.639315 °		
DWR ID DWR_ST0005_01_s _ 2018_12								
	0 10 1							

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Spring 2018.





View looking upstream landside of well maintained annual vegetation, Spring 2018.

LM Start	0.01	Rating **	Α	Issue No.		13		
LM End	1.22	Issue Type +	Ma	Location *		WS		
Category	Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Itom	Vegetation			39.4398	48°	39.456805 °		
Item		-121.6414	69°	-121.639314°				
DWR ID	DWR STO	005 01 s 201	8 13					

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The annual vegetation is well maintained, Spring 2018.

Photo 1 of 1: SP_2018_ST0005_289_13_20180409_00019.jpg



View looking upstream waterside of well maintained annual vegetation, Spring 2018.

LM Start	0.19	Rating **	М	Issue No.		15	
LM End	0.19	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory	ategory			Start		End	
Item	Vegetatio	n		39.4424	35 °	39.442435	0
пеш				-121.6417	60°	-121.641760	0
DWR ID	DWR_ST0	005_01_s _ 201	5_15				

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	03/20/2018 03/20/2018	Sterling York

LM Start	0.70	Rating **	М	Issue No.		16	
LM End	0.70	Issue Type +	Ma	Location *		WS	
Category	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End	
Item	Vegetatio	n		39.4496	23°	39.449623°	
item				-121.6409	-121.640940 ° -121		
DWR ID	DWR_ST0	005_01_s _ 201	7_16				
		Comn	nent Cod	le			
V4 : Elderb	perries are	blocking visib	ility and	flood fight	сара	bility.	
			0				
		Inspecto	or Comm	nent			

No Photos

LM Start	0.73	Rating **	A/W	Issue No.		14	
LM End	0.91	Issue Type +	Ma	Location *	WS		
Category	Earthen L	Earthen Levee			GPS Latitude/Longitude		
Calegory				Start		End	
Item	Trim / Thi	n Trees		39.45010)9°	39.452643 °	
item			-121.6408	51 °	-121.640316 °		
DWR ID	DWR_ST0	005_01_s _ 201	6_14				

Comment Code

T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Small trees 4" in diameter at chest height have been sprayed and should be removed, Spring 2018.

Photo 1 of 1: SP_2018_ST0005_289_14_20180409_00020.jpg



View looking upstream waterside of trees. Small trees 4" in diameter at chest height have been sprayed and should be removed, Spring 2018.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	03/20/2018 03/20/2018	Sterling York

LM Start	1.48	Rating **	U	Issue No.		18
LM End	1.99	Issue Type +	Ma	Location *	WS	
Cotogon Earthen Levee				GPS Latitude/Longitude		
Calegory	Category				Start	
Item	Trim / Thi	n Trees		39.45805	3°	39.461949°
item			-121.63630	o°	-121.629563 °	
DWR ID DWR_ST0005_01_s _ 2017_18						

Comment Code

T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

From Levee Mile 1.38 to 3.39 has never been maintained by the LMA.



View looking upstream of thick trees and vegetation blocking visibility on waterside, looking downstream. Spring 2018.

LM Start	1.48	Rating **	U	Issue No.		11		
LM End	3.25	Issue Type +	Ma	Location *		LS		
Catagonia Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Trim / Thi	n Trees		39.4580	55 °	39.470312°		
пеш			-121.6363	00°	-121.609242 °			
DWR ID	DWR_ST0	005_01_s _ 201	7_11					

Comment Code

T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

From Levee Mile 1.38 to 3.39 has never been maintained by the LMA.

Photo 1 of 1: SP_2018_ST0005_289_11_20180409_00021.jpg



View looking upstream landside of thick trees blocking visibility on landside, looking downstream. Spring 2018.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	03/20/2018 03/20/2018	Sterling York

LM Start	1.50	Rating **	М	Issue No.	17						
LM End	1.96	Issue Type +	Ma	Location *	WS						
Category	Earthen Levee				GPS Latitude/Longitude						
Calegory	Category			Start		End					
Itom	Vegetatio	n		39.45813	1°	39.461634°					
ltem 5				-121.63591	6°	-121.629926°					
DWR ID DWR_ST0005_01_f _ 2017_17											
		_									

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Maintain annual grasses, Spring 2018.



View looking upstream waterside of annual grasses that need to be maintained, Spring 2018.

LM Start	1.50	Rating **	U	Issue No.		6			
LM End	2.63	Issue Type +	Ma	Location *	LS				
Catagony	Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End			
Item	Vegetatio	n		39.4581	32°	39.466025°			
пеш						-121.618972°			
DWR ID	DWR ID DWR_ST0005_01_f _ 2016_6								

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Blackberries covering slope. From Levee Mile 1.38 to 3.39. This section has never been maintained by the LMA.

Photo 1 of 1: SP_2018_ST0005_289_6_20180409_00023.jpg



View looking upstream landside of blackberries that are covering the landside slope, Spring 2018.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	03/20/2018 03/20/2018	Sterling York

LM Start	1.96	Rating **	М	Issue No.		19
LM End	3.23	Issue Type +	Ma	Location *		WS
Category Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End
Item	Vegetatio	n		39.46163	33°	39.470064 °
пеш						-121.609264 °
DWR ID	DWR ID DWR_ST0005_01_s _ 2018_19					

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Maintain annual grasses and wild growth, Spring 2018.

Photo 1 of 1: SP_2018_ST0005_289_19_20180409_00026.jpg



View looking upstream waterside of annual grasses and wild growth that need to be maintained, Spring 2018.

LM Start	2.46	Rating **	М	Issue No.		10				
LM End	2.48	Issue Type + Ma Location *		8 Issue Type + Ma Location *		Location *		+ Ma Location *		LS
Category	Catagori Earthen Levee				GPS Latitude/Longitude					
Calegory				Start		End				
Item	Vegetatio	n		39.4653	70°	39.465410°				
пеш					74°	-121.621736 °				
DWR ID	/R ID DWR ST0005 01 f 2016 10									

Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Blackberry bushes are covering landside slope. From Levee Mile 1.38 to 3.39 has never been maintained by the LMA.

Photo 1 of 1: SP 2018 ST0005 289 10 20180302 00005.jpg



View of blackberries that are covering landside slope.

LM Start	3.23	Rating **	М	Issue No.		4
LM End	3.27	Issue Type +	Ма	Location *		WS
Category	evee	GPS Latitude/Longitude				
Category				Start		End
Item	Trim / Thi	n Trees		39.47006	63°	39.470558°
item			-121.60926	64 °	-121.609215 °	
DWR ID	WR ID DWR_ST0005_01_s _ 2013_4					

Comment Code T3: Trim and thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Small trees 4" in diameter at chest height should be removed before they get too big. From Levee Mile 1.38 to 3.39 has never been maintained by the LMA.



View looking upstream waterside of small trees 4" in diameter at chest height should be removed before they get to big, Spring 2018.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	03/20/2018 03/20/2018	Sterling York

LM Start	3.25	Rating **	М	Issue No.		20
LM End	3.25	Issue Type +	En	Location *		
Category	ental	GPS Latitude/Longitude				
Category			Start		End	
Item	DWR UCI	P Field Study		39.4702	69°	39.470269°
пеш				-121.6092	29°	-121.609229°
DWR ID						·

Comment Code

Inspector Comment

FS_ID:47972 DS_ID:17044 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/26/2016 Unable to access area near structure.5/14/2013 Same as last inpsection.11/14/2012

Abandoned Structure: WS- reminince of gates and concrete standpipe; LS-reminince of concrete headwall and pump station.

FIELD_STRUCT_DESC: *ABANDONED* [Western Canal Head Gate Inlet Structure] 1 of 2: 96-inch by 96-inch (8-foot by 8-foot) reinforced concrete culverts through the levee 25 feet below the crown. Three slide gates on the waterside (WS) end. Concrete stairs on the WS slope. Concrete headwall at both WS and landside (LS) toes. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M

Manual 152, March 1957 (Station 170+00)]

FS Date: 5/3/2016 12:36:00 PM

LM Start	3.25	Rating **	М	Issue No.	20 (cont)
LM End	3.25	Issue Type +	En	Location *	

Photo 1 of 3: UCIP_SP_2018_47972_21682.jpg



View of levee crown looking downstream.

Photo 2 of 3: UCIP SP 2018 47972 21681.jpg



View of levee crown at right bend.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	03/20/2018 03/20/2018	Sterling York

LM Start	3.25	Rating **	М	Issue No.		20 (cont)	
LM End	3.25	Issue Type +	En	Location *			
Category	Supplemental				GPS Latitude/Longitude		
Calegory				Start		End	
Item	DWR UC	IP Field Study		39.47026	9°	39.470269	0
пеш				-121.60922	9°	-121.609229	0
DWR ID							

Comment Code

Inspector Comment

FS_ID:47972 DS_ID:17044 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/26/2016 Unable to access area near structure.5/14/2013 Same as last inpsection.11/14/2012

Abandoned Structure: WS- reminince of gates and concrete standpipe;

LS-reminince of concrete headwall and pump station.

FIELD_STRUCT_DESC: *ABANDONED* [Western Canal Head Gate Inlet Structure] 1 of 2: 96-inch by 96-inch (8-foot by 8-foot) reinforced concrete culverts through the levee 25 feet below the crown. Three slide gates on the waterside (WS) end. Concrete stairs on the WS slope. Concrete headwall at both WS and landside (LS) toes. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M

Manual 152, March 1957 (Station 170+00)]

FS Date: 5/3/2016 12:36:00 PM

Photo 3 of 3: UCIP_SP_2018_47972_21680.jpg



View of levee looking upstream.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	03/20/2018 03/20/2018	Sterling York

LM Start	3.25	Rating **	М	Issue No.		21	
LM End	3.25	Issue Type +	En	Location *			
Category	Supplemental				GPS Latitude/Longitude		
Calegory				Start		End	
Item	DWR UC	IP Field Study		39.47026	9°	39.470269°	
пеш				-121.60922)°	-121.609229 °	
DWR ID							

Comment Code

Inspector Comment

FS_ID:47973 DS_ID:17056 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/26/2016 Unable to access area near structure.5/14/2013 Same as last inspection.11/14/2012

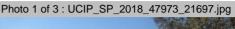
Abandoned Structure: WS- reminince of gates and concrete standpipe;

LS-reminince of concrete headwall and pump station.

FIELD_STRUCT_DESC: *ABANDONED* [Western Canal Head Gate Inlet Structure] 2 of 2: 72-inch by 96-inch (8-foot by 8-foot) reinforced concrete culvert through the levee 25 feet below the crown. Three slide gates on the waterside (WS) end. Concrete stairs on the WS slope. Concrete headwall at both toes. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 170+00)]

FS Date: 5/3/2016 12:37:00 PM

LM Start	3.25	Rating **	М	Issue No.	21 (cont)
LM End	3.25	Issue Type +	En	Location *	





View of levee crown looking downstream.

Photo 2 of 3: UCIP SP 2018 47973 21696.jpg



View of levee crown at a right bend.

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	03/20/2018 03/20/2018	Sterling York

LM Start	3.25	Rating **	М	Issue No.		21 (cont)	
LM End	3.25	Issue Type +	En	Location *			
Category		GPS Latitude/Longitude					
Calegory				Start		End	
Item	DWR UCIP Field Study			39.4702	69°	39.470269	0
пеш				-121.6092	29°	-121.609229	0
DWR ID							

Comment Code

Inspector Comment

FS_ID:47973 DS_ID:17056 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/26/2016 Unable to access area near structure.5/14/2013 Same as last inspection.11/14/2012

Abandoned Structure: WS- reminince of gates and concrete standpipe; LS-reminince of concrete headwall and pump station.

FIELD_STRUCT_DESC: *ABANDONED* [Western Canal Head Gate Inlet Structure] 2 of 2: 72-inch by 96-inch (8-foot by 8-foot) reinforced concrete culvert through the levee 25 feet below the crown. Three slide gates on the waterside (WS) end. Concrete stairs on the WS slope. Concrete headwall at both toes. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 170+00)]

FS Date: 5/3/2016 12:37:00 PM

Photo 3 of 3: UCIP_SP_2018_47973_21695.jpg



View of levee crown looking upstream at crossing.